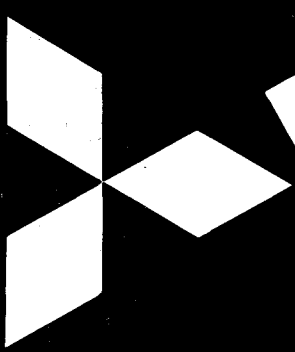
A GUIDE FOR YOUR ENJOYMENT

COLOR DISPLAY MONITOR

MODEL

XC-1404C
XC-1404CB



MITSUBISHI

For future reference, record the serial number of your display monitor in the space below:

SERIAL No. _____

The serial number is located on the rear cover of the set.

CAUTION

* This set is equipped with a AC power receptacle (3p).
  It is to be used with a properly grounded power receptacle to avoid possible electrical shock.
* Do not remove the back cover of the set as this can expose you to very high voltage and other hazard.

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1. Introduction

The XC-1404C/CB is 14" (13"V) High Resolution Color Display Monitor designed to display characters and graphics in 16 colors. The XC-1404C/CB has many advantages. These include:

* Fine – Pitch stripe screen.
  0.4 mm pitch shadow mask (compared with 0.63mm TV grade), giving a bright and clear, full 2,000 characters display.
* The CRT, with unique selective light transmission characteristics improving contrast in brightly lit rooms.
* Adjustable 3 – position tilting stand to ensure optimum viewing angle.
* Adjustable picture Brightness and Contrast control volume which you can adjust the Brightness and Colors to suit your request.
* RGB direct drive signal system that provides crisp characters and vivid color graphics.
* High focus provided by the multi – step focus electron gun.

2. Installation

1) Turn your computer power off.

2) Tilt Stand
Depending on your preference, you can adjust the tilt stand to three tilt positions for getting a comfortable viewing positions : 90°, 95°, and 100° angles.

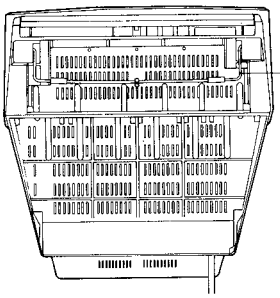


Figure 1. Bottom View

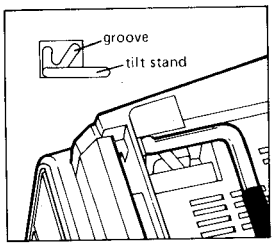


Figure 2. 90° Tilt Stand Adjustment.

When the stand is level, the set is viewed at a 90° angle.

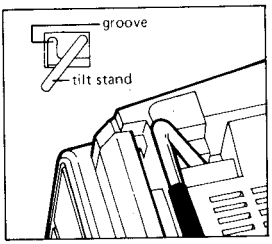


Figure 3. 95° Tilt Stand Adjustment.

For the set to be viewed at a 95° angle, adjust the stand to fit into the first groove.

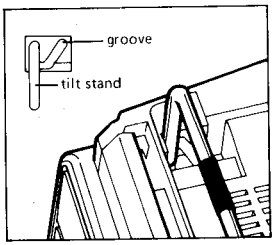


Figure 4. 100° Tilt Stand Adjustment.

For the set to be viewed at a 100° angle, adjust the tilt stand into the last groove. Make sure that the wire bar is horizontally in the proper groove.

3) Connect the RGB Connector to a compatible computer's RGB interface.

4) Plug the power code into a standard AC 100 ~ 240V outlet or approved power strip.

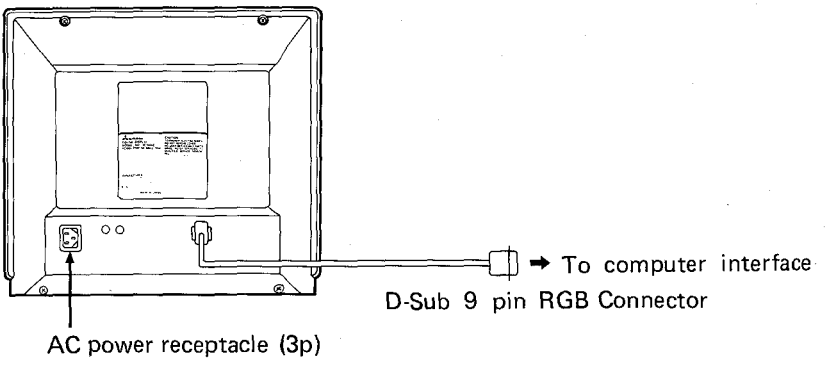


Figure 5. Rear View

Caution: Connect to a properly grounded outlet

Note: • If you have diskette errors while using the set, move the set away from your computer.
• After you have satisfactorily adjusted the tilt stand and connected the set to a compatible computer, connect the set's AC cord to the power source.

3. Using

Power – up all equipment. Use your system operation guide for instructions on powering your computer and other peripherals.

Controls

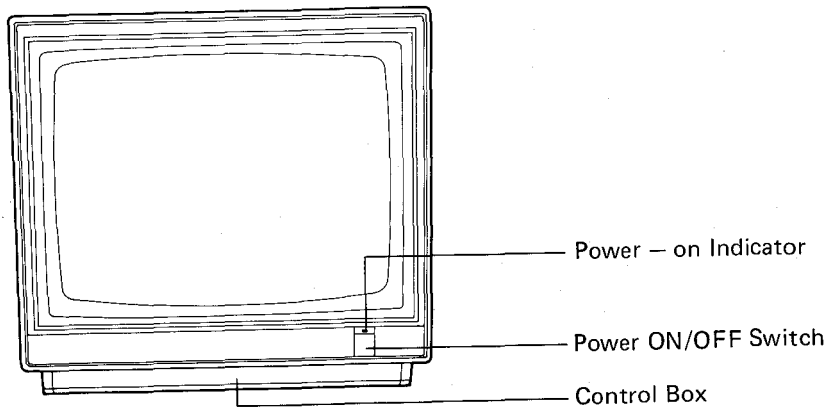


Figure 6. Front View

1) Power ON/OFF Switch
   The Power ON/OFF Switch is a push button. Pushed once, the power is turned on. Pushed again, the power is turned off.

2) Power-on Indicator
   This indicator illuminates when the power is on.

3) Control Box
   Three display adjustment knobs are concealed. To reveal them, press gently on the panel beneath the video screen.

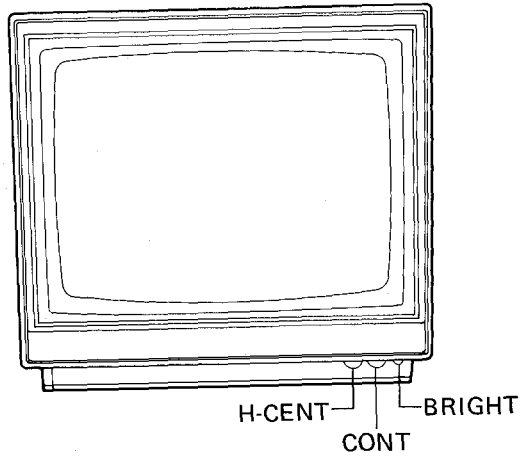


Figure 7. Front view revealing three knobs by pressing the control box panel

4) H-CENT (Horizontal Centering Control)

This control horizontally centers the display area. Rotate to adjust the position of the display.

5) BRIGHT (Brightness Control)

The Brightness Control changes the screen brightness. When turned clockwise, brightness increases.

6) CONT (Contrast Control)

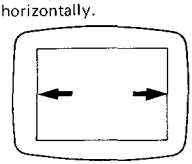
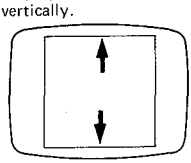
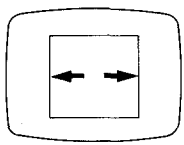
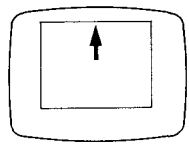
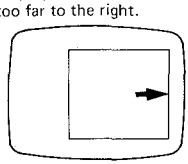
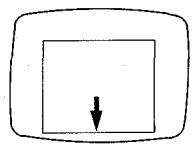
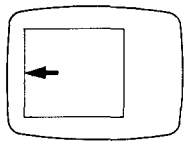
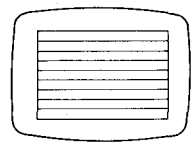
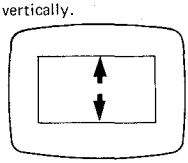
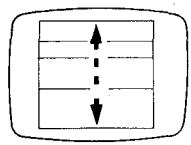
The Contrast Control changes the brightness of some colors when you compare them to other colors on the screen. When the Contrast Control is turned clockwise some colors get brighter. When the Contrast Control is turned counterclockwise some colors get darker.

4. Technical Information

The XC-1404C/CB is designed only for connection to a compatible computer which output a non-interlaced 200 line signal, 15.70KHz scanning frequency (as detailed next page).

When the set is connected to a non-compatible computer having other than specified output signal, distortion in display image, shape, and position may be due to the inadequate input signal.

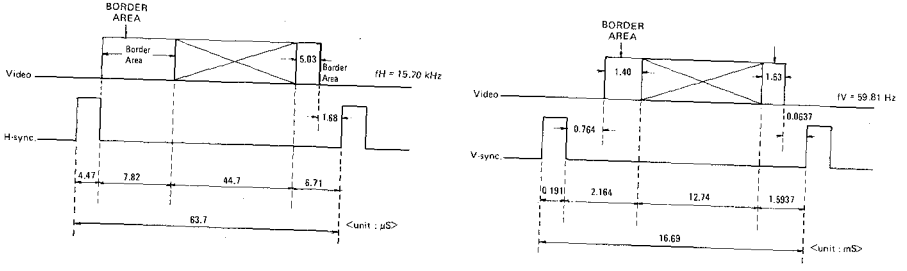
The following chart illustrates such conditions. Such conditions are occoured for the connection to a non-compatible computer.

Symptom	Cause	Symptom	Cause
Display area is spread horizontally. 	Display time is over 44.7 μS.	Display area is spread vertically. 	Display time is over 12.74 mS.
Display area is too narrow. 	Display time is under 44.7 μS.	Display area is positioned toward the top. 	Back porch time is under 2.164 mS.
Display area is positioned too far to the right. 	Front porch time is less than 6.71 μS.	Display area is too far toward bottom. 	Front porch time is under 1.5937 mS.
Display area is too far to the left. 	Back porch time is less than 7.82 μS.	Picture moves from side to side. 	Horizontal sync is not within the range of 15.3~16.7 kHz.
Display area is reduced vertically. 	Display time is under 12.74 mS.	Display area rolls up and down. 	Vartical sync is not within the range of 57 ~ 63 Hz.

Input Signal

Video Signal	Horizontal Sync.	Vertical Sync.
RGB & Intensity Separate TTL Positive	TTL Positive	TTL Positive

Timing Chart



5. Care and Maintenance

Provided the XC-1404C/CB is connected to the proper power source and is handled gently, it should give you a long period of trouble-free productivity. If there is a rare occasion when you suspect a malfunction with the unit, unplug the set and have it checked by your qualified Service Technician under conditions such as:

- If the set has been dropped or the cabinet has been damaged.
- When the power cord is damaged or frayed.
- If the set has been exposed to rain or water.

If you are unable to restore normal operation by following the detailed procedure in your Operation Instructions, do not attempt any further adjustments as improper adjustment of other controls will result in damage and will not often require extensive work by a qualified technician to restore the set to normal operation.
Unplug the set and call your dealer.

If the set fails, or exhibits a distinct change in performance – this indicates a need for service. Unplug the set and have it checked by a professional Service Technician.

It is normal for some sets to make occasional snapping and popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer.

Installation and Location Hints

The set has slots, openings in the cabinet and back for ventilation purposes, to provide reliable operation of the monitor, and to protect it from overheating.

- Install the set about 4" (0.1 meters) away from the wall.

- Never cover the slots or openings with cloth or other fabric.
- Never block the bottom ventilation slots of the monitor by placing it on a bed, sofa, rug, etc.
- Never place the monitor in a Built-In enclosure, unless proper ventilation is provided.
- Never place the monitor near or over a radiator or heat register.
- Never expose the monitor to rain or excessive moisture and dust as this can be potential cause of fire or shock hazard.
- Never place the monitor on an unstable monitor cart or stand. The monitor may fall causing damage to the monitor or injury. Use only with a cart or stand recommended by the manufacturer.

Operation

- Operate the set only from the power source indicated on the back of the cabinet.
- To use a power source that is not marked on the monitor back will shorten the life of the Monitor and cause damage in addition to improper operation.
- This monitor is equipped with a three-pin plug.
  To ensure safe operation the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively grounded through the normal household wiring. Extension cords used with the equipment must be three-wire and be correctly wired to provide connection to ground. Wrongly wired extension cords are a major cause of fatalities. The fact that the equipment operates satisfactorily does not imply that the power point is grounded and that the installation is completely safe. For your safety, if in any doubt about the effective grounding of the power point, consult a qualified electrician.
- Do not overload wall outlets and extension cords as this can result in fire or shock.
- Adjust only those controls that are described in the Owner's Manual. Improper adjustment of other controls may result in possible damage and will require the services of a technician to restore proper operation.
- Do not allow anything to rest on the power cord. Do not locate this monitor where the cord will be abused by persons walking on it.
- When not using the set for extended periods of time, such as a weekend or vacation, unplug the set from the wall outlet.
- If the same characters or graphics are shown for a long time with the Brightness and Contrast controls set to maximum positions, part of the screen may be damaged. Use these controls with care.
- Do not remove the back cover of the set as this can expose you to very high voltage and other hazards.
- Caution children about dropping or pushing objects into the cabinet openings. Some internal parts carry hazardous voltages and contact can result in electrical shock or fire.
- Never operate the set near water–for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- Never spill liquid of any kind on the monitor. If liquid has accidentally spilled into it, unplug the set and have it checked by a Service Technician before use.

Cleaning

- Always unplug the monitor before cleaning.
- Wipe the screen and cabinet front and sides with a soft cloth.
- If the screen requires more than dusting, apply a household window cleaner to a soft cloth to clean the monitor screen.

Caution– Do not use benzene, thinner, or any volatile substances to clean the unit as the finish may be permanently marred. Never leave the unit in contact with rubber or vinyl for an extended period.

- Occasionally, the internal parts of the monitor may need to be cleaned to prevent fire and other damage caused by dust particles. It is recommended that you take the unit to your dealer for yearly cleaning.

6. Specifications

Power Supply	AC 100 ~ 240V 50/60 Hz
Power Consumption	70W
CRT	14" 90° deflection, super high contrast and multistep focus tube, fine pitch stripe screen.
Input Signal	Red, green, and blue (RGB) video and intensity, vertical and horizontal synchronization.
Input Level	Video TTL positive, intensity TTL positive, vertical and horizontal synchronization TTL positive
RGB Connector	D-Sub 9 pin, interface cable included
Scanning Frequency	Horizontal 15.70 kHz Vertical 59.81 Hz
Display Time	Horizontal 44.7 μS Vertical 12.74 mS
Display Size	10" x 7" (256mm x 178mm)
Resolution	640 dots x 200 lines (within display size)
Character Number	Approximately 2000.
Cabinet Dimensions	13 3/4" (W) x 12 5/8" (H) x 15" (D) [350mm (W) x 322mm (H) x 381mm (D)]
Weight	Approximately 24 lbs. 11 ozs. (11.2 Kg)